

WHAT IS CLAIMED IS:

1. A water level regulator for adjusting water level comprising:
a case having a side and upper surfaces forming an airtight case chamber having an open bottom, a water filling port, an air vent hole and an air inlet having a height at a lower part of said side surface;
a first float mounted on said upper surface of said case for vertical movement by a first buoyancy thereof, said first float including a ventilation plug for closing said air vent hole when the water level falls below a first prescribed level (W1) and releasing said air vent hole when water level in said case exceeds said first prescribed water level; and
a second float mounted inside said case for vertical movement by a second buoyancy thereof, said second float including a filling port plug for shutting said water filling port when the water level in said case exceeds a second prescribed water level (W2) that is higher than said first water level (W1) and opening said filling port filling port when the water level falls approximately to said height of said air inlet and opens said case chamber to atmosphere.
2. A water level regulator according to claim 1, wherein filling port is located on a side of said case and said air vent hole is located on said upper surface of said case.
3. A water level regulator according to claim 1, wherein said water level regulator is mounted on a bottom surface of a water catcher and a plurality of planters are mounted on an upper part of said water catcher.
4. A water level regulator according to claim 1 in combination with a water catcher and a water absorption mat, wherein said water catcher includes a groove in an upper surface thereof and an absorption part on which said water absorption mat is arranged, said water level regulator being installed on an inside bottom of said water catcher.

5. A water level regulator according to claim 4 in combination with a flowerpot, wherein said water absorption mat is formed of a bonded textile and said flowerpot is set up on said water absorption mat.

6. A water level regulator according to claim 1 in combination with a planter body, said planter including a sidewall and an inside bottom, wherein said water level regulator is installed on inside bottom of said planter body.

7. A water level regulator according to claim 1 in combination with a water catcher, a sidewall, a top panel and planting soil, wherein said water regulator is mounted on a bottom surface of said water catcher and said water catcher includes a partition wall that is water permeable and separates planting soil from said water level regulator, said sidewall being installed outside of and surrounding said water catcher, said top panel positioned adjacent an upper part of said sidewall and being formed of a hollow container having water intake holes and drainage and plant holes allowing plants to grow vertically through said top panel, wherein said water filling port of said water level regulator is connected to said drainage of said top panel.

8. A water level regulator according to claim 1 in combination with a water catcher, a water absorption mat placed on said water catcher to absorb water inside said water catcher, a root proof mat that is located on said water absorption mat, a drain layer that is located on said root proof mat, a water storage layer that is located on said drain layer wherein seeds may be sown on said water storage layer, and a sunshade mat covering said water storage layer, wherein said water level regulator is located inside said water catcher.